Exhibit A



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EMBOSS Align Results

Needle Results

Blosum62

10.0 Open gap penalty Gap extension penalty 0.5

Needle output needle-20070226-19371266036393.output

SUBMIT ANOTHER JOB

Program: needle

Rundate: Mon Feb 26 19:37:13 2007

Align_format: srspair

Report_file: /ebi/extserv/old-work/needle-20070226-19371266036393.output

Aligned sequences: 2 # 1: EMBOSS_001

2: EMBOSS_001

Matrix: EBLOSUM62 # Gap_penalty: 10.0

Extend_penalty: 0.5

Length: 524

Identity: 414/524 (79.0%) # Similarity: 451/524 (86.1%) 23/524 (4.4%)

Gaps: # Score: 2064.0

Mouse SEQ1 human SEQ17

EMBOSS_001	1	MPMSSRDRDLHPGHHHFGSCSPLSQLWPGP-EPKSVKGLYYSRARKVGNQ	49
EMBOSS_001	1	MPMPSRDGGLHPRHHHYGSHSPWSQLLSSPMETPSIKGLYYRRVRKVGAL	50
EMBOSS_001	50	DASPEANLKEILVNVGGQRYLLPWSTLDAFPLSRLSRLRLCRSHEEITQL	99
EMBOSS_001	51	DASPVDLKKEILINVGGRRYLLPWSTLDRFPLSRLSKLRLCRSYEEIVQL	100
EMBOSS_001	100	CDDYDEDSQEFFFDRNPSAFGVIVSFLAAGKLVLLREMCALSFREELSYW	149
EMBOSS_001	101	CDDYDEDSQEFFFDRSPSAFGVIVSFLAAGKLVLLQEMCALSFQEELAYW	150
EMBOSS_001	150	GIEETNLERCCLRKLLKKLEEAAELRREEAAQRQQQRQACHSEVQ	194
EMBOSS_001	151	GIEEAHLERCCLRKLLRKLEELEELAKLHREDVLRQQRETRRPASHS	197
EMBOSS_001	195	ASRWARSMNQLREMVEDPQSGLPGKVFACLSVLFVATTAVSLCVSTMPDF	244
EMBOSS_001	198	-SRWGLCMNRLREMVENPQSGLPGKVFACLSILFVATTAVSLCVSTMPDL	246
EMBOSS_001	245	RAEEGKGECTRKCYYIFVVESICVAWFSLEFCLRFVQAPNKCQFFRGPLN	294
		**** *** *** **** ** ** *********** ****	

247 RAEEDQGECSRKCYYIFIVETICVAWFSLEFCLRFVQAQDKCQFFQGPLN

295 VIDILAISPYYVSLAVSDESPEAGERPSSSSYLEKVGLVLRVLRALRILY

EMBOSS_001

EMBOSS 001

296

344

EMBOSS_001 297	:	346		
EMBOSS_001 345	VMRLARHSLGLQTLGLTVRRCAREFGLLMLFLAVAVTLFSPLVYVÄENES	394		
EMBOSS_001 347	:	396		
EMBOSS_001 395	GRVLEFTSIPASYWWAIISMTTVGYGDMVPRSVPGQMVALSSILSGILIM	444		
EMBOSS_001 397	GRVLEFTSIPASYWWAIISMTTVGYGDMVPRSVPGQMVALSSILSGILIM	446		
EMBOSS_001 445	AFPATSIFHTFSHSY-ELKVREQEQVQARLRRLQNTNSA	482		
EMBOSS_001 447	AFPATSIFHTFSHSYLELK-KEQEQLQARLRHLQNTGPASECELLDPHVA	495		
EMBOSS_001 483	SERELLSDVDDLVPEGLTSPGRYM 506			
EMBOSS_001 496	SEHELMNDVNDLILEGPALPIMHM 519			
# #				

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